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A Quarterly Newsletter Published by the International Safeguards Project Office

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TOPICS IN THIS ISSUE

BROOKHAVEN
NATIONAL LABORATORY

managed for the U.S. Department of Energy by Brookhaven Science Associates,
a company founded by Stony Brook University and Battelle

Recruitment for the Department of Safeguards

Donna Occhiogrosso

The following positions are being advertised by the IAEA Department of Safeguards:

Section Head

Section Head (P-5)
Procedures & Support Section
Division of Operations C
Vacancy Notice No. 2004/100
Deadline: February 14, 2005
Published Salary: $109,000

Staff Positions:

Senior Safeguards Analyst (P-5)
Section for System Studies
Division of Concepts & Planning
Vacancy Notice No. 2004/085
Deadline: February 21, 2005
Published Salary: $109,000

Cost-Free Expert Positions:

03/ISH-002 IAEA Safeguards Information System Re-engineering Project (IRP) (P5)

IRP Change control and configuration management including procurement, contracting, and change requests.

Junior Professional Officer (JPO)

Engineer, P-2
Division of Technical Support
Section for Installed Equipment
Unattended Monitoring Systems Unit
Task No. 04/TIE-002
Salary: $55,000

The JPO will contribute expertise and effort to the testing, logistics, preparation, shipment, and installation of unattended systems for IAEA safeguards equipment.

The duration of a Cost-Free Expert (CFE) appointment is, at the very least, a two-year assignment. CFE personnel are employed by the US government to work at the IAEA. For further information and details regarding these postings, visit the ISPO website at www.bnl.gov/ispo.

Personnel Changes

Michael Farnitano

Cost free expert Bernard Wishard was selected by the IAEA in December to fill the position of Head of the Unattended Monitoring System (UMS) Unit within the IAEA Safeguards Division of Technical Support, Section for Installed Systems.

Mr. Wishard began his CFE position in March 2004 and was responsible for providing engineering support to the UMS unit. Mr. Wishard will not assume the UMS Unit Head position directly due to current demands at the IAEA. He will become the Acting Head of the Surveillance Unit for the next six months to one year, while the designated Surveillance Unit Head Julian Whichello is assigned to coordinate technical meetings on emerging technologies for monitoring enrichment and for detecting undeclared activities. Cesare Liguori will become the acting UMS Unit Head during this period. We look forward to working with these three staff members in their new roles.

Jeanne Anderer completed her CFE assignment for the Section for Safeguards Standardization on October 31, 2004. She began her assignment in August 2000 providing assistance in technical writing for the Department of Safeguards. She became an important member of the team during her tenure by overseeing the development of quality assurance training.

The New SGIT Testing Laboratory

Kathleen Donoghue

The Safeguards Information Technology Division opened its new Testing Laboratory recently with the objective of meeting the quality assurance and testing needs of all the software products developed and contracted by SGIT. One of the main goals for the SGIT Testing Laboratory is to be ready to test the ISIS Reengineering Project (IRP) deliverables. It will be the main resource for verification and validation of the quality of the products delivered by contractors to the Department of Safeguards during the IRP project.

During my year-long internship with the Quality Assurance and Testing Group of SGIT, I have helped maintain and develop the testing lab, learned about testing tools, and tested software products.

Since its inception, the Testing Laboratory has been used to conduct successfully the testing of the enhancement to the Non-Proliferation Treaty Accounting System, Quality Control &

Verification System, and Travel Claims Reporting phases I and II. In my role as a tester, I have used the Test Lab to conduct integration and system tests of the Integrated Inspector Information System (I3S), a subsystem of the Data Collection and Evaluation Information System for the Rokkasho Reprocessing Plant (RRP) in Japan. I am preparing to conduct the testing for the CIR-Web project. Testing will help ensure the quality of the contracted software like the I3S and in-house projects like CIR-Web.

In addition to conducting testing, the SGIT Testing Laboratory has various testing tools to aid in the development of the software product. These include load and performance testing tools, which allow SGIT to produce better quality products. The Test Lab has application and web-based capture/playback tools, which allow for testing to be automated. As part of my responsibilities, I am able to learn about these tools and present them to the other software developers in SGIT. The U.S. Support Program (USSP) has provided the Test Lab with necessary funds for the purchase of additional software tools in accordance with the selected platform for the IRP. After the selection of the contractor for IRP, the SGIT Testing Laboratory will be further equipped to meet the needs of this major project in the Safeguards Department.

The IAEA is committed to providing hardware for the laboratory. Recently, six new desktops have been installed in the Testing Laboratory. Servers have been ordered for the SGIT Testing Laboratory and will be used to maintain a testing environment independent from the software development and production environments. The SGIT Testing laboratory has the capability to provide multiple testing services including Functional Testing, System Testing, Platform Compatibility Testing, Integration Testing, Performance Testing, Regression Testing, and Acceptance Testing.

While I am increasing my knowledge of the software engineering process, I am helping the Agency to save time and money, by improving the quality of the software products before they are put into production.

Ms. Donoghue is a USSP intern in the Division of Safeguards Information Technology, Section for Software and Hardware Services. She has a degree in Electrical Engineering from Columbia University.

Upcoming Meetings

**Member State Support Program
Coordinators' Meeting**
Vienna, Austria
March 14-17, 2005

NPT Review Conference
New York City
May 2-27,2005

ESARDA Meeting
London, England
May 10-12, 2005

USSP Annual Meeting
Vienna, Austria,
June 7-10, 2005

INMM Annual Meeting
Phoenix, Arizona
July 10-14, 2005